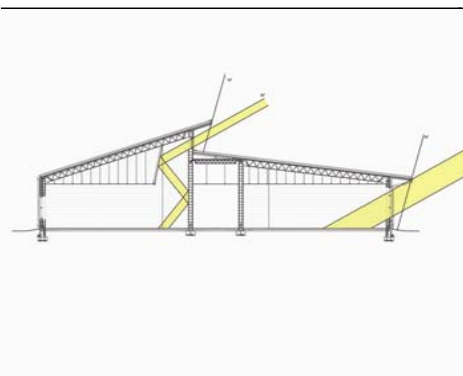


High Performance Sustainable Schools

Athens-Chilesburg Elementary

- **HOLISTIC APPROACH**
- **DAYLIGHTING**





High Performance Sustainable Schools

Athens-Chilesburg Elementary

- ***Ancient ways of building***
- ***Not new trendy approach***
- ***Integration of environment + technology***

Holistic Approach



High Performance Sustainable Schools

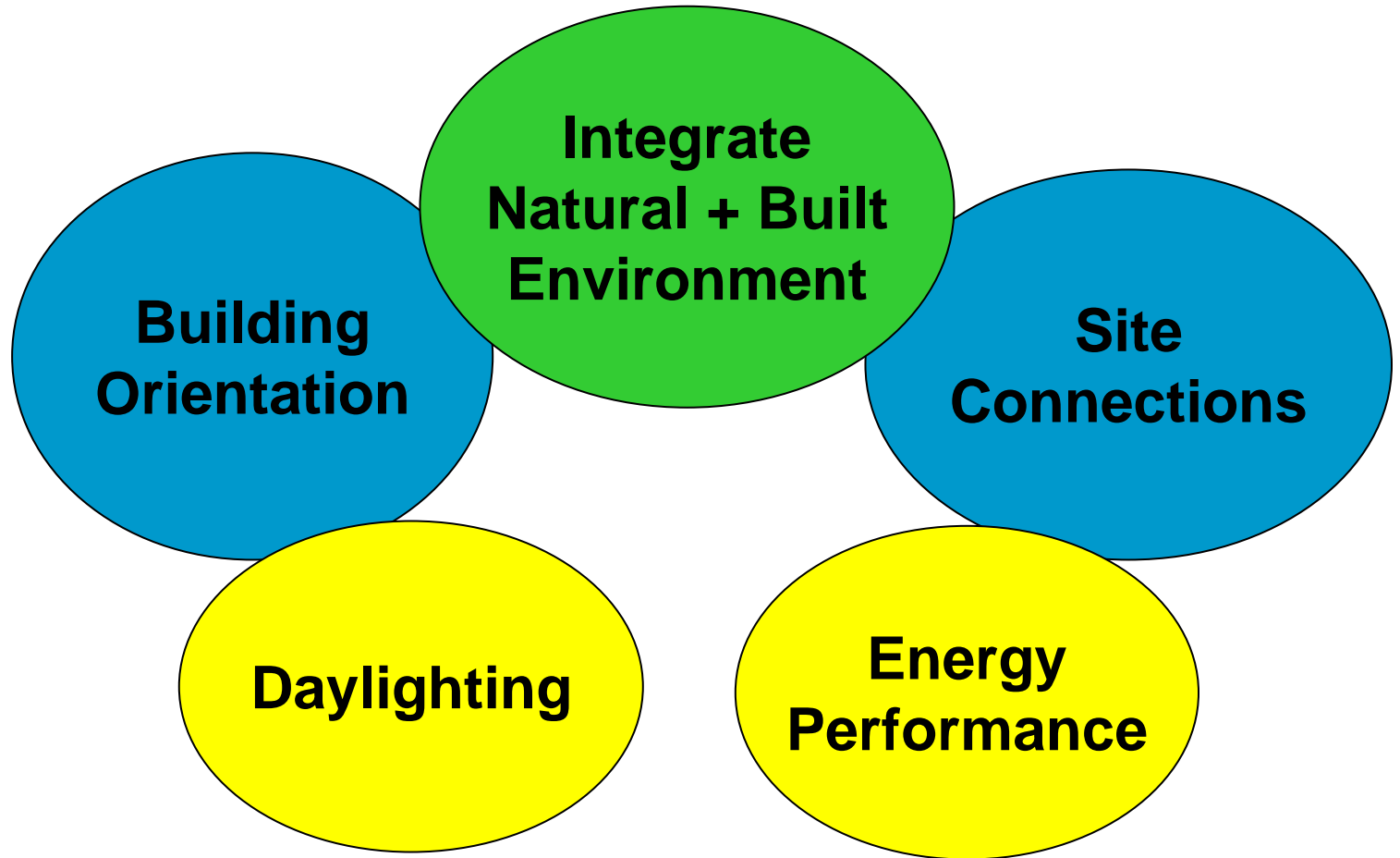
Athens-Chilesburg Elementary

- ***Optimize the combined impact of all design elements***
- ***Optimize to achieve long term value and performance***
- ***Create an enduring asset to the community***

Holistic Approach

High Performance Sustainable Schools

Athens-Chilesburg Elementary



Holistic Approach

High Performance Sustainable Schools

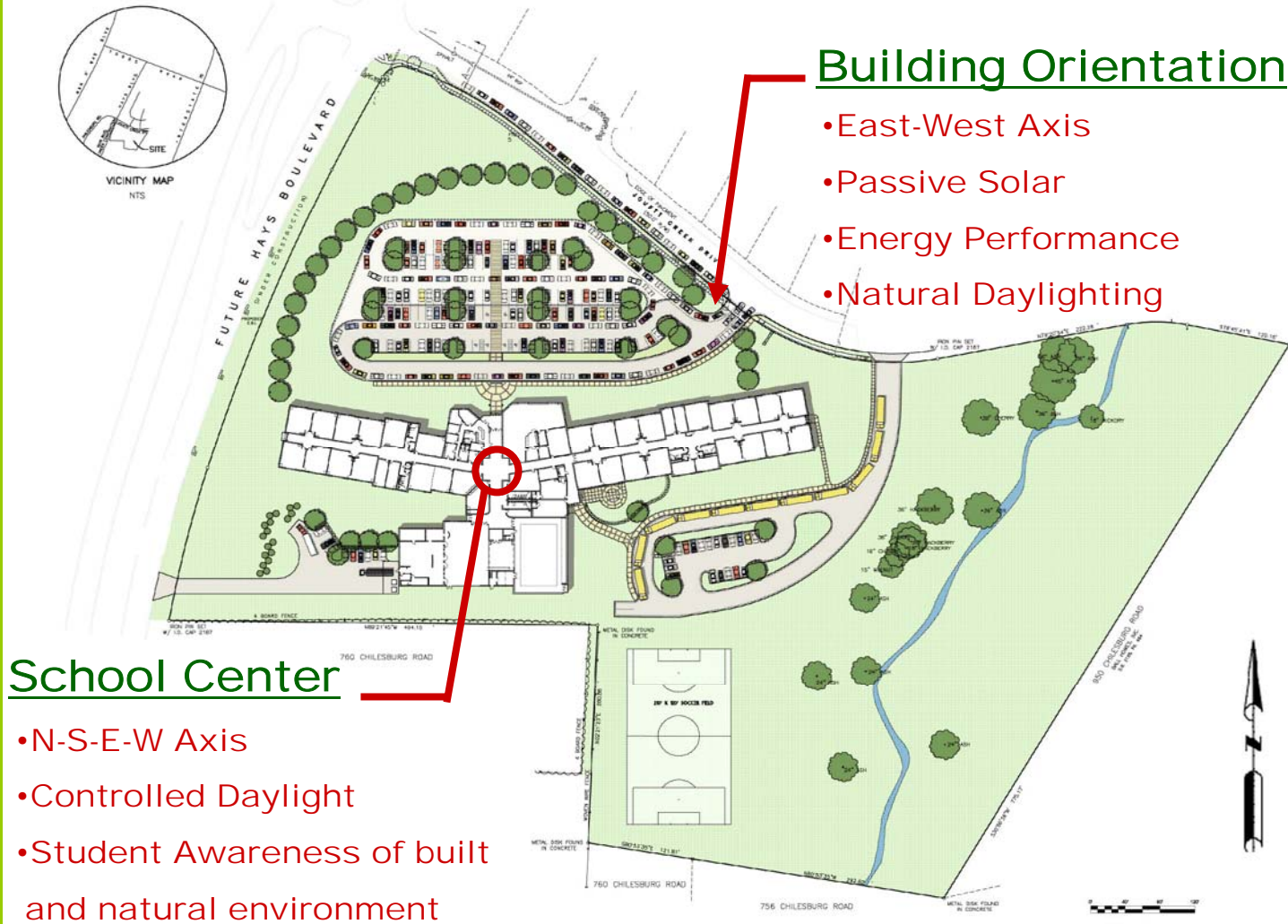
Athens-Chilesburg Elementary



Neighborhood Connections

High Performance Sustainable Schools

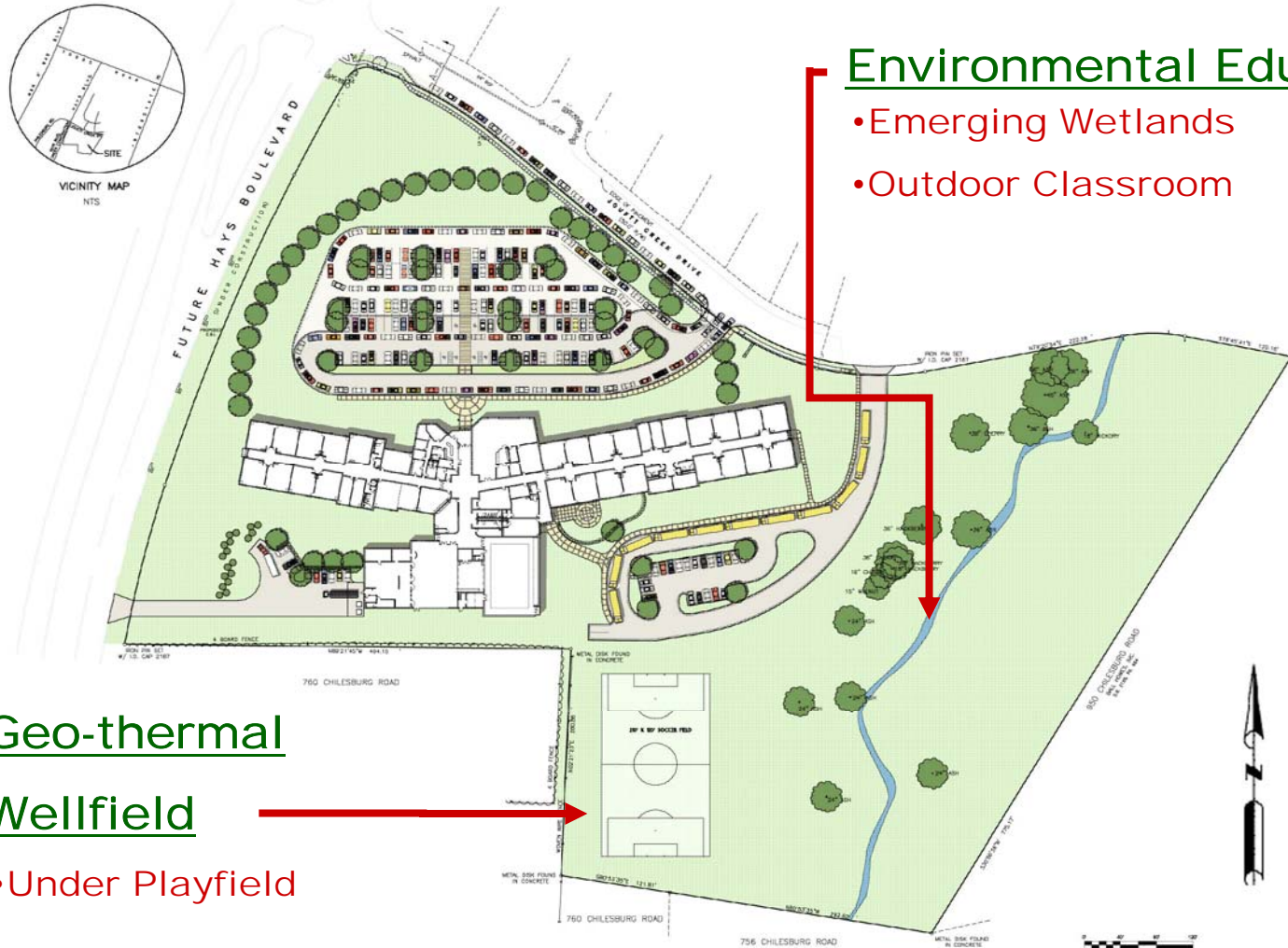
Athens-Chilesburg Elementary



Holistic Approach

High Performance Sustainable Schools

Athens-Chilesburg Elementary



Geo-thermal

Wellfield

- Under Playfield

Environmental Education

- Emerging Wetlands
- Outdoor Classroom

Holistic Approach

High Performance Sustainable Schools

Athens-Chilesburg Elementary

**Natural
Light**

Passive Solar

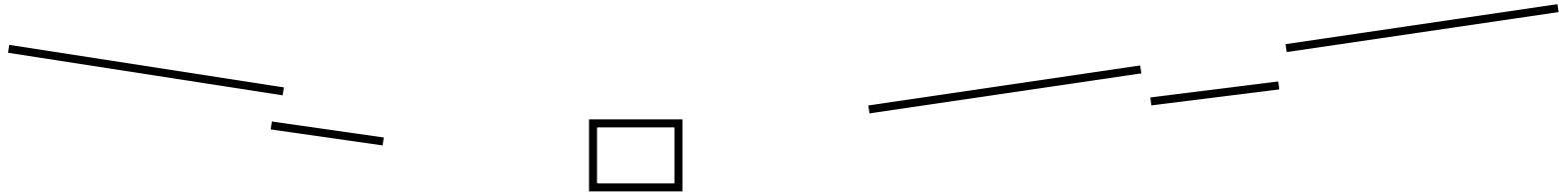
Dimming

HVAC Sensors

Natural Daylighting

High Performance Sustainable Schools

Athens-Chilesburg Elementary



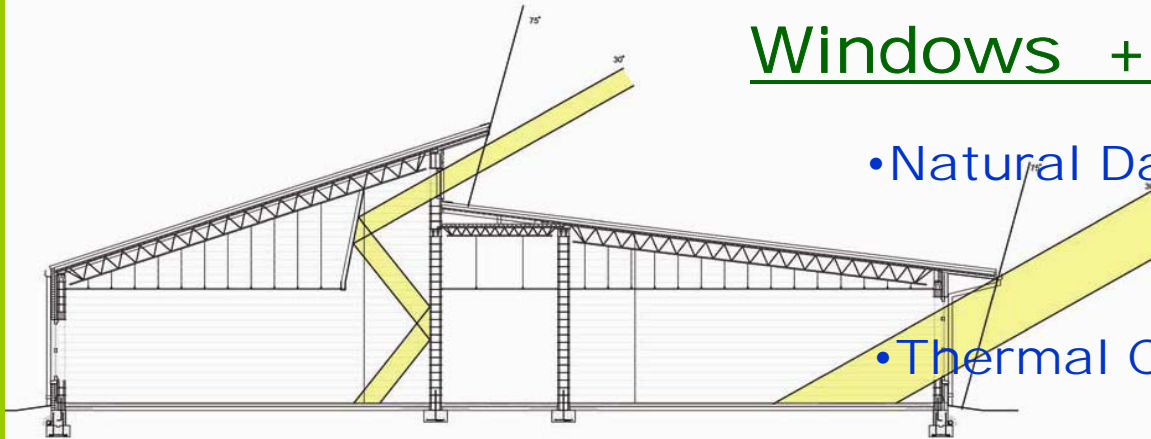
- Classroom Windows: 84 SF = 10.5% Total Floor Area
- Classroom + Commons Clerestories
- Cupola at school center
- Controlled Entry: Deep Roof Overhangs

Natural Daylighting

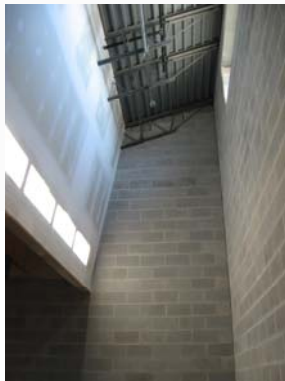
High Performance Sustainable Schools

Athens-Chilesburg Elementary

Windows + Clerestories



- Natural Daylight + Dimming
- Thermal Comfort + Sensors
- Reduce costs - Cooling + Elec



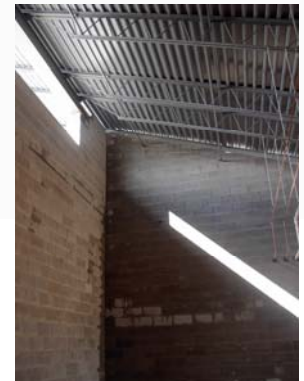
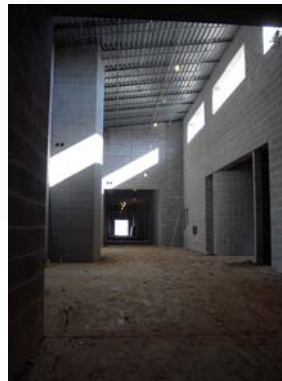
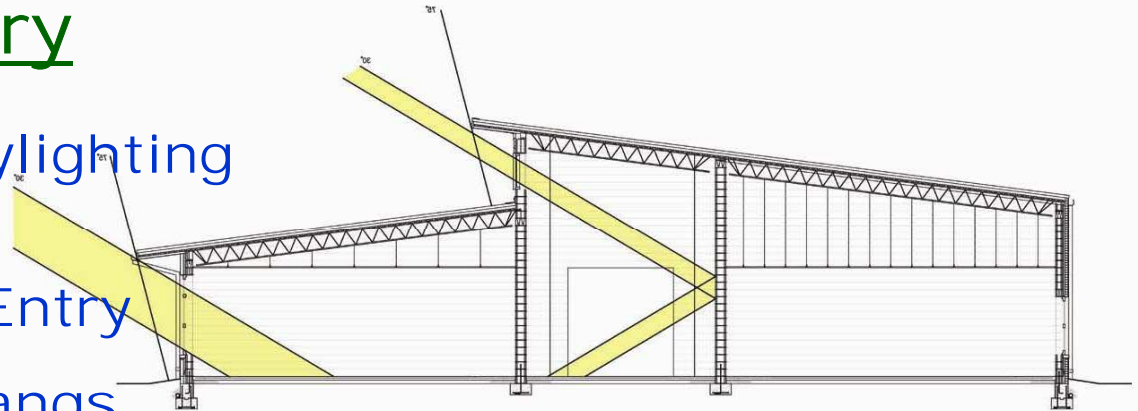
Natural Daylighting

High Performance Sustainable Schools

Athens-Chilesburg Elementary

Clerestory

- Internal Daylighting
- Controlled Entry
- Roof Overhangs



Natural Daylighting



High Performance Sustainable Schools

Athens-Chilesburg Elementary

- Life-Cycle Costing
- Lower energy costs
- **Buildings that accommodate the future**
- **Wise use of Natural Resources**
- **Increase student awareness of environment**
- **Healthy + Productive Environment for Students**

Costs + Benefits